

ABSTRACT

A bearing apparatus for a wheel of a vehicle for rotatably supporting a wheel of a vehicle relative to a suspension system. The bearing apparatus improves the durability of an inner ring fit onto a wheel hub. The bearing apparatus for a wheel of a vehicle has an inner member which includes a wheel hub with an integrally formed wheel mounting flange at one end and a cylindrical portion axially extending from the wheel mounting flange. An inner ring is fit onto the cylindrical portion. An outer member is arranged around the inner member. Double row rolling elements are freely rollably contained between the inner and outer members. The inner ring is secured in an axial direction relative to the wheel hub by a caulked portion. The caulked portion is formed by radially outwardly deforming the end of the cylindrical portion of the wheel hub. A chamfer is formed on an outer circumferential surface of a back side of the inner ring. The chamfer is formed as a cut surface machined after heat treatment of the inner ring.